NABU Internet Adaptor Emulator Software

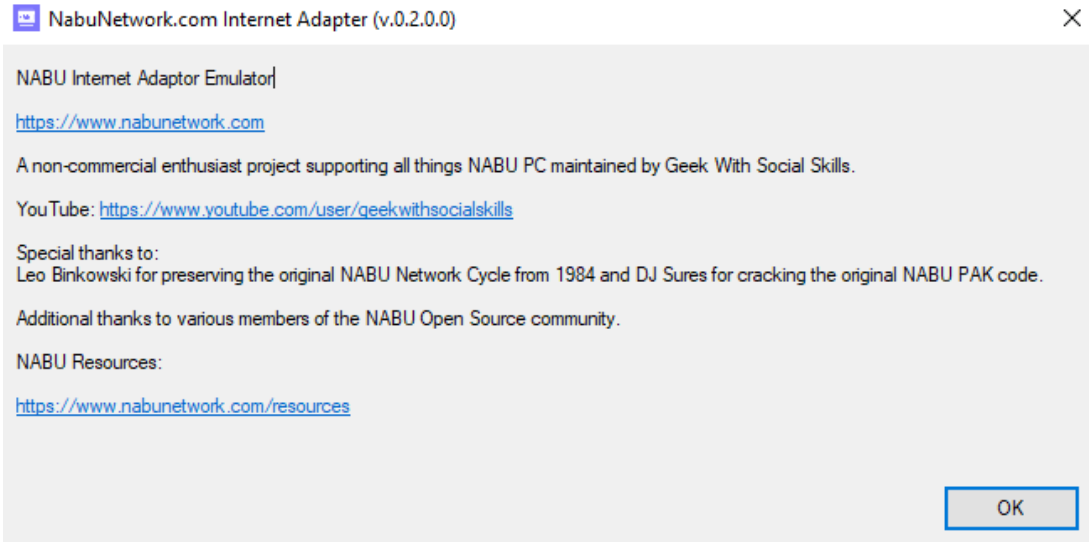
Created by Geek With Social Skills

Revision date: February 28, 2023

NABU Internet Adapter Emulator

This software allows for the NABU Personal Computer to communicate with the outside world via the adapter cable. Once the adapter cable is connected to the NABU PC and a computer (desktop/laptop) your NABU PC can now communicate with the NABU world.

Current NABU Internet Adapter Emulator version: **v1.06 (February 28, 2023)**. As newer versions become available, they will be made available at NABU Network (https://www.nabunetwork.com)


NabuNetwork.com Internet Adapter (v.0.2.0.0)
NABU Internet Adaptor Emulator
https://www.nabunetwork.com
A non-commercial enthusiast project supporting all things NABU PC maintained by Geek With Social Skills.
YouTube: https://www.youtube.com/user/geekwithsocialskills
Special thanks to:
Leo Binkowski for preserving the original NABU Network Cycle from 1984 and DJ Sures for cracking the original NABU PAK code.
Additional thanks to various members of the NABU Open Source community.
NABU Resources:
https://www.nabunetwork.com/resources
OK

**** This application is presented as "as is" and I\we do not take any responsibility for any damages or issues caused by the program. I\we try our best to test and make this application OS friendly.**

Included Features with the NABU Internet Adapter Emulator

- Application runs on Microsoft Windows operating system
- Allows the NABU computer to connect to the NabuNetwork.com and selecting newest versions
- Ability to execute demos, pictures, and NABU BASIC directly. No need to load NABU menu first
- Ability to execute arcade games directly. No need to load NABU menu first
- Allows the NABU computer to connect to other custom cloud servers
- Allows the NABU computer to connect to a local server. Just set the folder location and start the server. No difficult configuration needed
- Great for local development
- No need to stop and start the server when changing sources. Just reboot/restart the NABU computer. Initially, you only start the server once.
- Baud rate changes can be made, if needed. Auto default value is set for maximum performance
- Application default is to save your settings on exit which will allow you continue where you left off therefore no need to search and select past setting(s)
- Easy to view button status shows when the server is started or stopped
- Segment transfers status shown in real time with serial RS422 mode
- Live/real time data shown during application loads. Requesting segments and packet status is displayed
- Easy to download from https://www.nabunetwork.com
- Free updates provided
- Free documentation provided
- Community supported and field tested

Thanks to everyone in the community for their support, testing, and providing feedback.

To report issues or if you would like to help grow this application, please see contact information on the https://www.nabunetwork.com website.

Installation of NABU Internet Adapter Emulator

1. Download the application from The NABU Network site (https://www.nabunetwork.com) into a folder of your computer.
2. Extract the file and execute the .exe file. Microsoft will present you with a warning about the application however, you can bypass this and continue. We are waiting on the Microsoft certification which will eliminate this warning.
3. Create a shortcut on your desktop for ease of use.
4. Launch the executable.

Installation of Files for Using Local Source

To use the local NABU server, you will need to download and uncompress the “cycle” file(s) into a folder of your choice. Start the application, select the source called “Local” and select the directory where the cycle files have been uncompressed. Now you are ready to start the server.

Application Available Sources

- NabuNetwork.com Cycle Sources
- Fun Stuff
- Arcade
- Custom Cloud
- Local

Application Available Modes

1. Serial RS422
2. TCP/IP

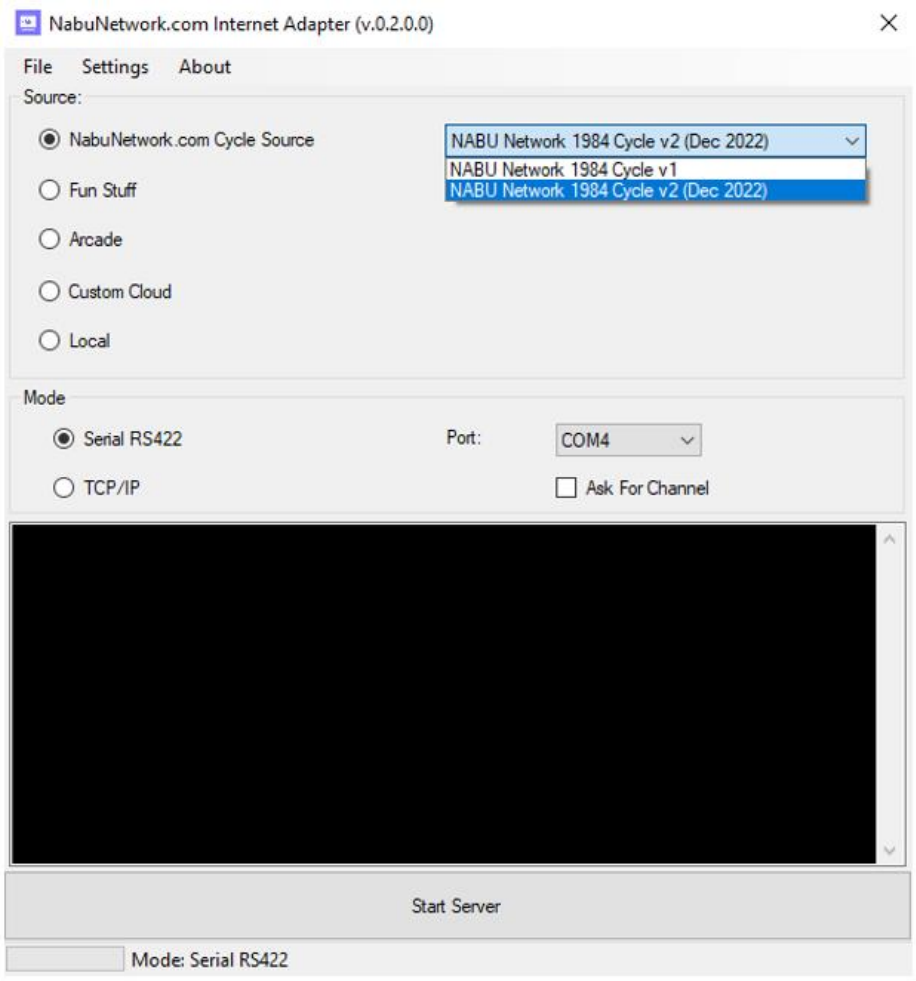
Source: NabuNetwork.com Cycle Source

With the pull-down button, you will be presented with the two selections (at time of this release).

1. NABU Network 1984 Cycle v1
2. NABU Network 1984 Cycle v2 (Dec 2022)

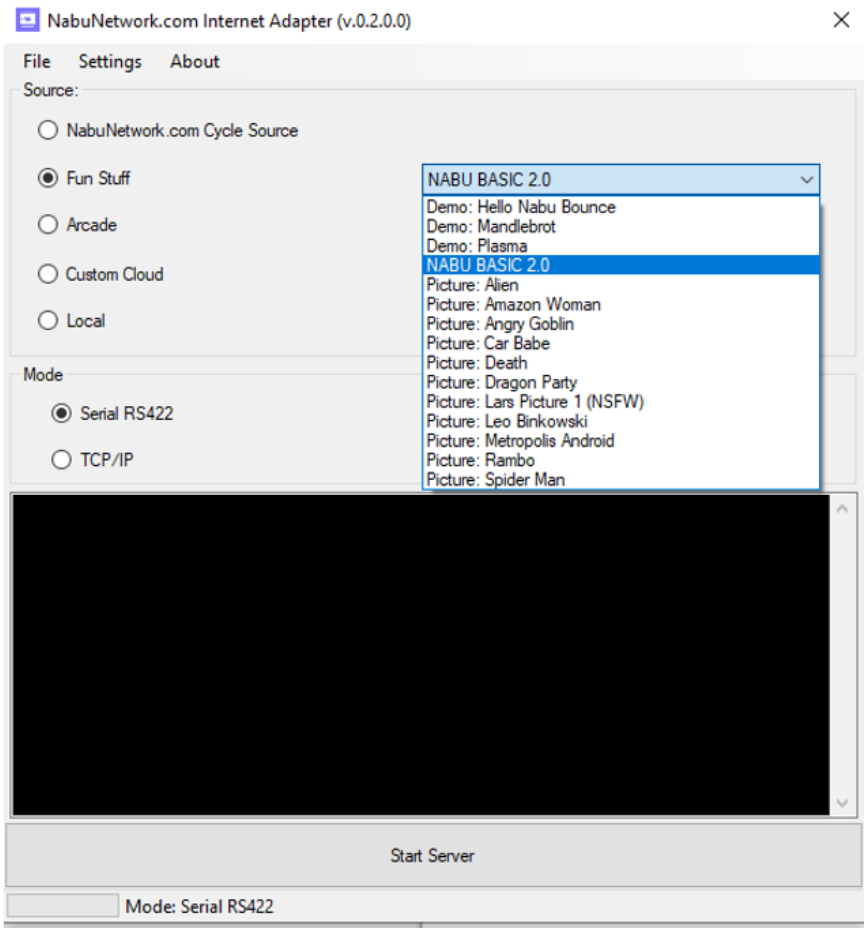
These cycles will present you with a working NABU menu. From the menu you can select and run applications and games as presented to home users back in the 1980's.

Additional cycles will be provided once they become available.



Source: Fun Stuff

This source allows you to select fun stuff you can do with your NABU computer. You can view demos, pictures, and even load NABU BASIC without having to load them via the NABU menu(s).

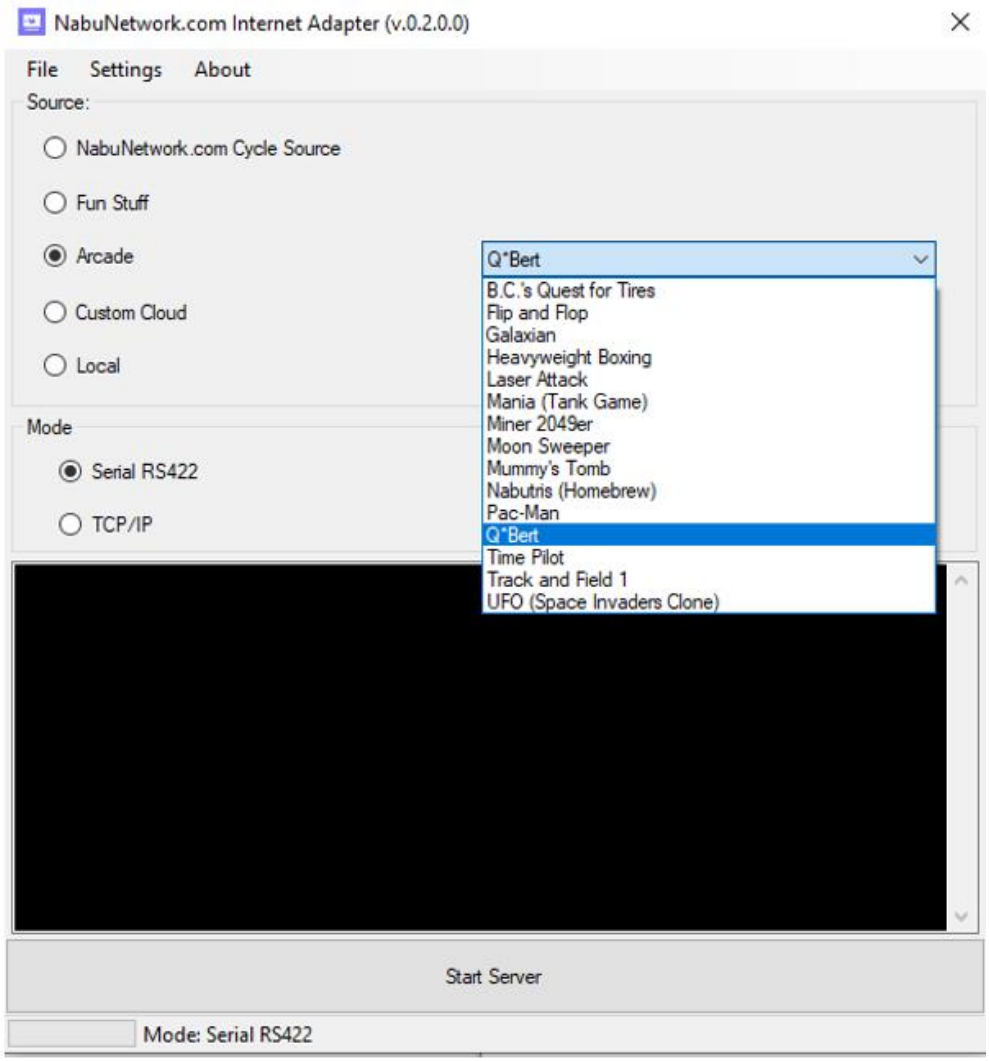


*** At this time, you cannot save NABU BASIC programs to your desktop/laptop computer. External floppy drives, SD card drives and GOTEK support will become available by the community.*

Source: Arcade

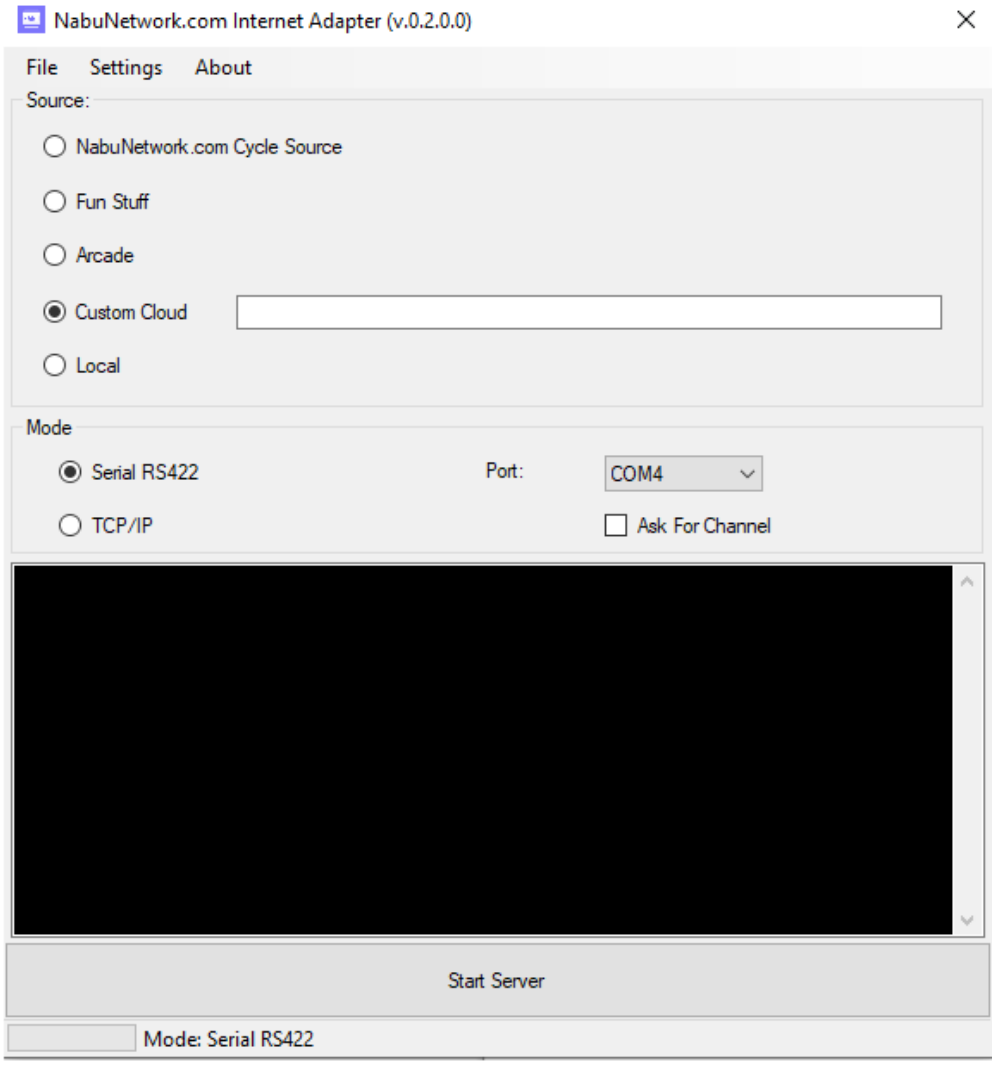
Here you can select and play several arcade games. Select your favorite and restart/reset your NABU computer. No menu will be displayed as the arcade game will start up automatically. No need to stop and start the server.

This menu will update as new games become available, so check the pull-down list often for more fun games.



Sources: Custom Cloud Servers

This section will allow you to choose which NABU cloud server you would like to connect. As more and more NABU servers become available, you will be able to type in their landing page here.



*** This application does not support 1) RetroNET chat, 2) Cloud CP/M, and 3) Cloud TELNET. These custom cloud servers are proprietary to NABU.ca (https://nabu.ca)*

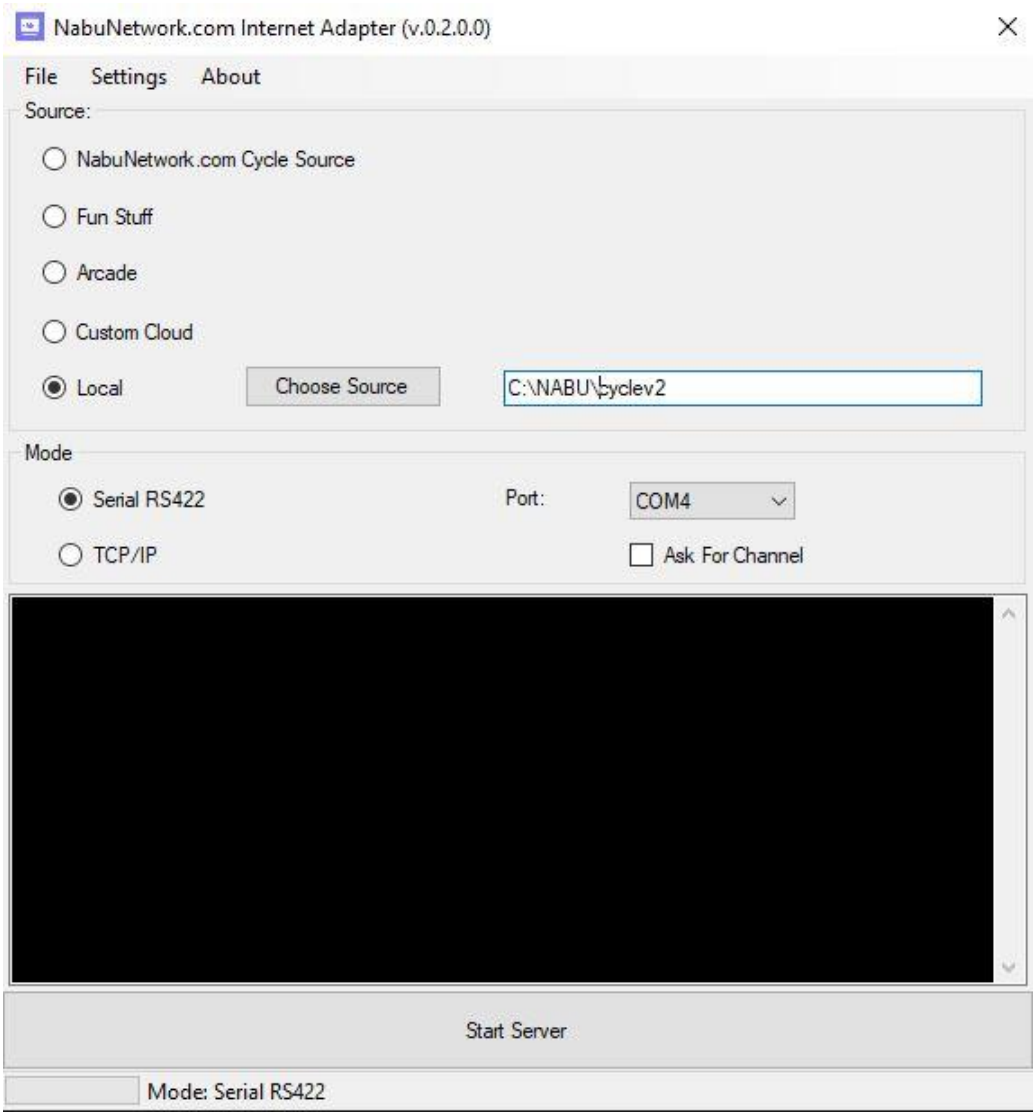
Source: Local

This source allows you to run your desktop/laptop as a NABU server. No need to connect to the internet or any other NABU server.

Be sure to click on “Choose Source” and select the directory where you uncompressed the “cycle” files.

Once completed, reboot/reset your NABU computer and you will be presented with the NABU menu which is running completely local.

You can create and/or customize your NABU experience; however this is not covered in this documentation.

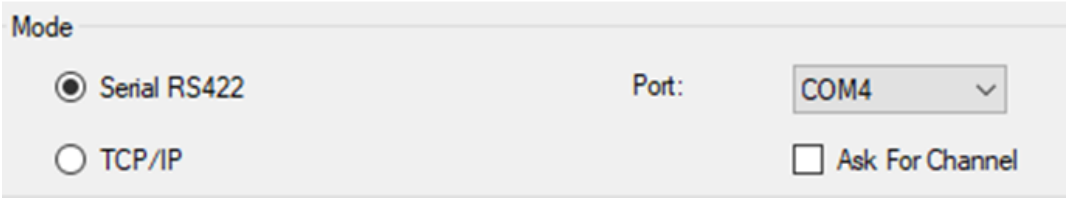


Modes

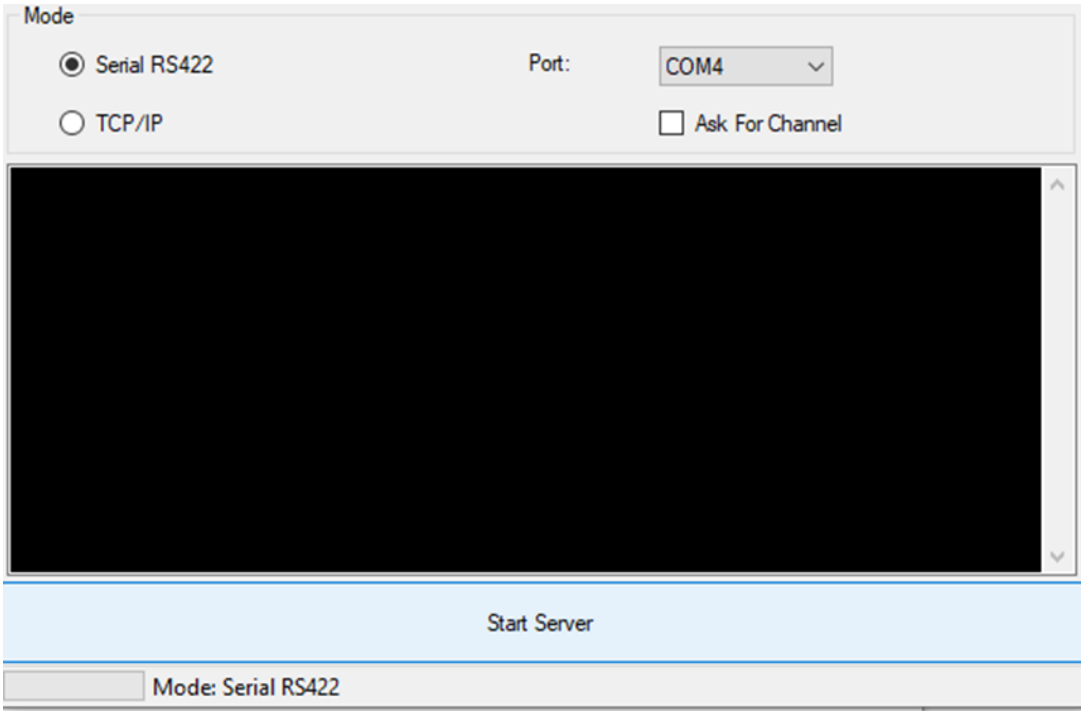
Modes are different ways to connect. There are two modes:

- Serial connection via the RS422 and cable connected to your NABU computer
- TCP/IP connection via your network

For real NABU hardware, you will be using the Serial RS422 connection

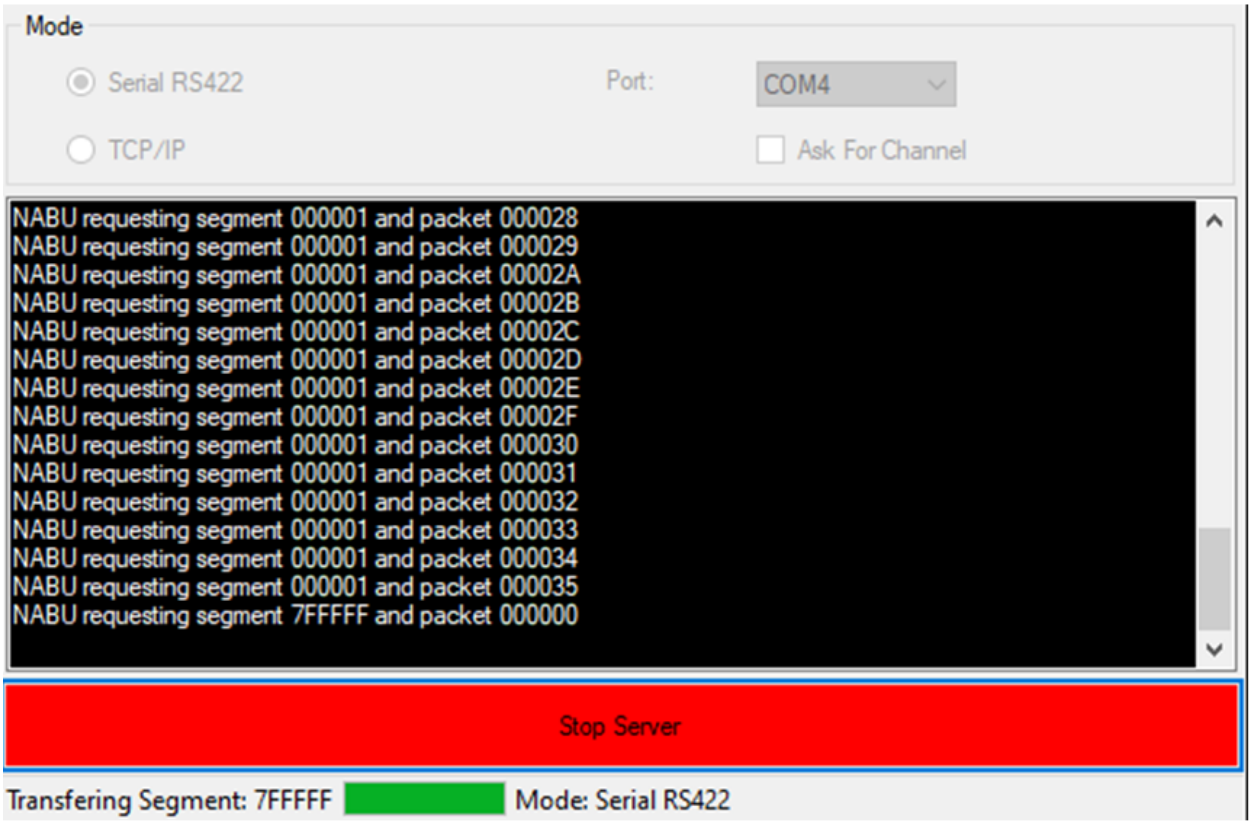


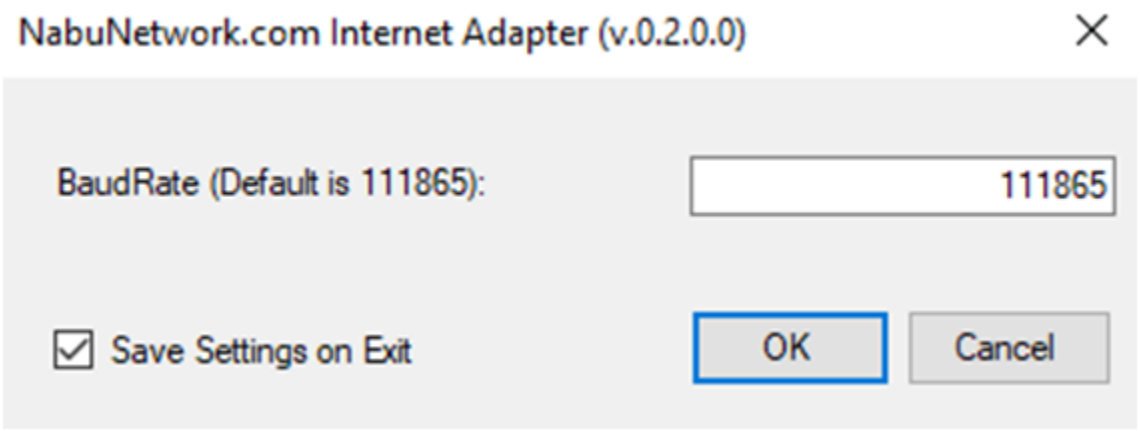
Once mode is selected press the Start Server button at the bottom of the screen



At this point you will see data being sent to the NABU computer. Requesting segments and packets sent will be shown. Similar data will be shown with each source you select.

If no data is being presented, make sure your NABU computer is turned on. If on, press the RESET button located on the front panel. Ensure that that the server button is now showing “Stop Server” in red background.


Mode
Serial RS422
Port:
COM4
TCP/IP
Ask For Channel
NABU requesting segment 000001 and packet 000028
NABU requesting segment 000001 and packet 000029
NABU requesting segment 000001 and packet 00002A
NABU requesting segment 000001 and packet 00002B
NABU requesting segment 000001 and packet 00002C
NABU requesting segment 000001 and packet 00002D
NABU requesting segment 000001 and packet 00002E
NABU requesting segment 000001 and packet 00002F
NABU requesting segment 000001 and packet 000030
NABU requesting segment 000001 and packet 000031
NABU requesting segment 000001 and packet 000032
NABU requesting segment 000001 and packet 000033
NABU requesting segment 000001 and packet 000034
NABU requesting segment 000001 and packet 000035
NABU requesting segment 7FFFFF and packet 000000
Stop Server
Transfering Segment: 7FFFFF
Mode: Serial RS422

Settings

Under the “Settings” button you will be presented with the Baud rate. Baud rate is the velocity of data being sent to the NABU computer from your desktop/laptop. By default, the better performing baud rate is presented. There is no need to change this value.